## In the Claims:

1. (Currently amended) A storage management service system, comprising: a storage on demand (SoD) center system;

a storage subsystem including a plurality of storage devices and a plurality of I/O

ports; and

a host computer coupled to-said storage subsystem and to said SoD center system;

wherein

said SoD center system is remote from the host computer and the storage

subsystem;

said SoD center system receives input of an SoD demand, said SoD demand including a request to specify a storage resource, sends said demand to said storage subsystem to manage usability of the storage resource, and is capable of managing accessibility of the storage resource by the host computer; and wherein

said storage subsystem receives said demand, makes said storage resource usable, and sends a management result to the SoD center system.

- 2. (Previously presented) The system of claim 1, wherein if said request includes an I/O path setting to be updated, said SoD center system sends an I/O path setting request to said host computer; and wherein said host computer requests an operating system to update an I/O path setting based upon said I/O path setting request, receives an update result from said operating system, and sends a setting result to said SoD center system.
- 3. (Previously presented) The system of claim 1, wherein said host computer and said storage subsystem are coupled by physical and logical connections between at least one of a plurality of host I/O controllers and at least one of a plurality of subsystem I/O ports.
- 4. (Previously presented) The system of claim 1, wherein said host computer and said storage subsystem are coupled by a network switch between at least one of a plurality of host I/O controllers and at least one of a plurality of subsystem I/O ports.

- 5. (Original) The system of claim 4, wherein said network switch comprises a fibre channel network switch.
  - 6. (Currently amended) A storage apparatus comprising:

memory;

a plurality of storage devices;

a plurality of I/O ports providing an interface to said plurality of storage devices;

a device management store, in which a status of said plurality of storage devices is stored, and an I/O port management store, in which a status of said plurality of I/O ports is stored; and

a storage resource management processor; wherein

said storage management processor receives a demand for storage resources, the demand specifying one of said storage devices, updates said device management store to manage usability of one of the storage devices and said I/O port management store to manage accessibility of the one storage device by a user machine, and sends a management result responsive to said demand; and wherein

updates to at least one of a plurality of paths connecting to storage resources allocated from at least one of said plurality of storage devices are automatically defined to an operating system of <u>said user a user machine</u>; and

said storage resource management processor is remote from said plurality of storage devices and from said user machine.

- 7. (Previously presented) The apparatus of claim 6, said plurality of storage devices comprising at least one of a magnetic disk, an optical disk, a magnetic-optical disk, and semiconductor memory.
- 8. (Original) The apparatus of claim 6, further comprising a communications interface to a network, said storage management processor receiving said demand for storage resources over said network.

- 9. (Original) The apparatus of claim 6, further comprising a fibre channel switch, said fibre channel switch providing capability to connect to at least one of a plurality of host computers.
- 10. (Currently amended) A method for configuring a host to access resources in a storage subsystem, said host, said storage subsystem, and a center system being remote from each other and interconnected by a communication network, said method comprising:

receiving at said host an I/O path setting request from said center system, said I/O path setting request specifying a path to a resource in said storage subsystem allocated for use by said host;

requesting an operating system resident in said host to update an I/O path setting based upon said I/O path setting request;

receiving an update result from said operating system; and sending a setting result to said center system based upon said update result, thereby enabling the center system to manage accessibility of the resource by the host.

- 11. (Previously presented) The method of claim 10, wherein updating said I/O path setting comprises: storing an indication that a particular I/O port in said storage subsystem is accessible to a particular host I/O controller.
- 12. (Previously presented) The method of claim 10, further comprising: receiving at said center system an input of a demand for storage resources; determining whether sufficient resources exist to meet said demand; sending said demand for storage resources to said storage subsystem, if sufficient resources were determined to exist;

receiving from said storage subsystem a management result, said management result indicating whether storage resources have been successfully allocated in accordance with said demand;

storing said management result; determining whether said demand includes an I/O path setting request; sending said I/O path setting request to said host, if said demand included an I/O path setting request;

receiving said setting result from said host; and storing said setting result.

13. (Previously presented) The method of claim 12, further comprising: receiving said demand for storage resources at said storage subsystem; determining whether said demand includes a command to make at least one of a plurality of installed devices available;

updating a device management store, if said demand includes a command to make at least one of a plurality of installed devices available;

updating an I/O port management store; and sending a resource management result to said center system.

- 14. (Previously presented) The method of claim 13, wherein updating a device management store comprises: storing an indication that a particular device is usable.
- 15. (Previously presented) The method of claim 13, wherein updating a I/O port management store comprises: storing an indication that a particular I/O port is usable.
- 16. (Previously presented) The method of claim 13, further comprising: receiving at said storage subsystem an I/O command to access storage resources from said host;

determining whether storage resources requested by said I/O command are usable; performing said I/O command, if said storage resources requested by said I/O command are usable, otherwise rejecting said I/O command; and sending an I/O result to said host.

17. (Previously presented) The method of claim 16, wherein determining whether storage resources requested by said I/O command are usable comprises:

searching said device management store to determine whether devices requested in said I/O command are usable.

18. (Previously presented) The method of claim 17, wherein determining whether storage resources requested by said I/O command are usable further comprises:

searching said I/O port management store to determine whether I/O ports requested in said I/O command are usable and whether devices requested in said I/O command are accessible via I/O ports requested in said I/O command.

19. (Currently amended) A computer program product for configuring a host to access resources in a storage subsystem, said host, said storage subsystem, and a center system being remote from each other and interconnected by a communication network, said computer program product comprising:

code that receives at said host an I/O path setting request from said center system, said I/O path setting request specifying a path to a resource in said storage subsystem allocated for use by said host;

code that requests an operating system resident in said host to update an I/O path setting based upon said I/O path setting request;

code that receives an update result from said operating system;

code that sends a setting result to said center system based upon said update result, the codes thereby enabling the center system to manage accessibility of the resource by the host; and

a computer readable storage medium for holding the codes.

20. (Previously presented) The computer program product of claim 19, further comprising:

code that receives at said center system an input of a demand for storage resources;

code that determines whether sufficient resources exist to meet said demand;

code that sends said demand for storage resources to said storage subsystem, if sufficient resources are determined to exist;

code that receives from said storage subsystem a management result, said management result indicating whether storage resources have been successfully allocated in accordance with said demand;

code that stores said management result;

code that determines whether said demand includes an I/O path setting request; code that sends said I/O path setting request to said host, if said demand includes an I/O path setting request;

code that receives said setting result from said host; and code that stores said setting result.

21. (Previously presented) The storage management system of claim 1, wherein said storage resource includes said storage devices.